

O*NET Occupational Information Network

O*NET, the Occupational Information Network, provides a common language for defining and describing occupations. The Standard Occupational Classification (SOC) system provides the foundation for the O*NET coding system and is used by all statistical agencies to classify workers into occupational categories for the purpose of collecting, calculating, and disseminating occupational information.

The titles and codes defined in the O*NET Database are based on the six-digit numerical coding structure of the SOC system. A two-digit extension (sequentially numbered, beginning with "01") is added to some SOC codes to differentiate unique O*NET occupations within the SOC system. When no unique O*NET occupation exists, the extension, "00" is added to the SOC code.

The SOC/O*NET coding structure classifies all occupations into 23 major groups. Within these major groups are 96 minor groups, 449 broad occupations, 821 detailed occupations and over 900 O*NET occupations. The SOC/O*NET system replaces all occupational classification systems previously used by federal statistical agencies.

Classification Guidelines

In order to ensure that all users of occupational data classify workers the same way, the following classification principles should be followed.

Classification Codes

11-0000	Management Occupations
13-0000	Business and Financial Operations Occupations
15-0000	Computer and Mathematical Occupations
17-0000	Architecture and Engineering Occupations
19-0000	Life, Physical, and Social Science Occupations
21-0000	Community and Social Services Occupations
23-0000	Legal Occupations
25-0000	Education, Training, and Library Occupations
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations
29-0000	Healthcare Practitioners and Technical Occupations
31-0000	Healthcare Support Occupations
33-0000	Protective Service Occupations
35-0000	Food Preparation and Serving Related Occupations
37-0000	Building and Grounds Cleaning and Maintenance Occupations
39-0000	Personal Care and Service Occupations
41-0000	Sales and Related Occupations
43-0000	Office and Administrative Support Occupations
45-0000	Farming, Fishing, and Forestry Occupations
47-0000	Construction and Extraction Occupations
49-0000	Installation, Maintenance, and Repair Occupations
51-0000	Production Occupations
53-0000	Transportation and Material Moving Occupations
55-0000	Military Specific Occupations

Coding Structure

Major Group	47-0000	Construction & Extraction Occupations
Minor Group	47-2000	Construction Trade Workers
Broad Occupation	47-2070	Construction Equipment Operators
Detailed Occupation	47-2073	Operating Engineers and Other Construction Equipment Operators
O*NET Occupation	47-2073.02	Operating Engineer

The Classification covers all occupations in which work is compensated. It excludes occupations unique to volunteers. Each occupation is assigned to only one occupation at the lowest level of the classification.

Supervisors of professional and technical workers usually have a background similar to the workers they supervise, and are, therefore, classified with the workers they supervise. Likewise, team leaders, lead workers and supervisors of production, sales, and service workers who spend at least 20 percent of their time performing work similar to the workers they supervise are classified with the workers they supervise.

First-line managers and supervisors of production, service, and sales workers who spend more than 80 percent of their time performing supervisory activities are classified separately in the appropriate supervisor category, since their work activities are distinct from those of the workers they supervise. First-line managers are generally found in smaller establishments where they perform both supervisory and management functions, such as accounting, marketing, and personnel work.

Apprentices and trainees should be classified with the occupations for which they are being trained, while helpers and aides should be classified separately.

If an occupation is not included as a distinct, detailed occupation in the structure, it is classified in the appropriate residual occupation. Residual occupations contain all occupations within a major, minor or broad group that are not classified separately.

When workers may be classified in more than one occupation, they should be classified in the occupation that requires the highest level of skill. If there is no measurable difference in skill requirements, workers are included in the occupation they spend the most time.

Data collection and reporting agencies should classify workers at the most detailed level possible. Different agencies may use different levels of aggregation, depending on their ability to collect data, and the requirements of users.

O*NET Desk Guide

Management Occupations:

11-3011.00 Administrative Services Managers
 11-3021.00 Computer & Information Systems Managers
 11-9032.00 Education Administrators, Elementary & Secondary School
 11-9033.00 Education Administrators, Postsecondary
 11-9041.00 Engineering Managers
 11-3031.02 Financial Managers, Branch or Dept.
 11-9051.00 Food Service Managers
 11-1021.00 General and Operations Managers
 11-1011.01 Government Service Executives
 11-3051.00 Industrial Production Managers
 11-2021.00 Marketing Managers
 11-9111.00 Medical and Health Services Managers
 11-1011.02 Private Sector Executives
 11-2022.00 Sales Managers
 11-9151.00 Social and Community Service Managers
 11-3031.01 Treasurers, Controllers, & Chief Financial Officers

Business & Financial Operations Occupations:

13-2011.01 Accountants
 13-2011.02 Auditors
 13-1031.01 Claims Examiners, Property & Casualty Insurance
 13-1051.00 Cost Estimators
 13-1071.01 Employment Interviewers, Private or Public Employment Service
 13-2051.00 Financial Analysts
 13-1031.02 Insurance Adjusters, Examiners and Investigators
 13-2053.00 Insurance Underwriters
 13-2072.00 Loan Officers
 13-1111.00 Management Analysts
 13-1071.02 Personnel Recruiters
 13-1023.00 Purchasing Agents, Except Wholesale, Retail, & Farm Products
 13-1073.00 Training and Development Specialists

Computer & Mathematical Occupations:

15-1021.00 Computer Programmers
 15-1071.01 Computer Security Specialists
 15-1031.00 Computer Software Engineers, Applications
 15-1032.00 Computer Software Engineers, Systems Software
 15-1041.00 Computer Support Specialists
 15-1051.00 Computer Systems Analysts

Architecture & Engineering Occupations:

17-3023.02 Calibration & Instrumentation Technicians
 17-2051.00 Civil Engineers
 17-3023.01 Electronics Engineering Technicians
 17-3023.03 Electrical Engineering Technicians
 17-2072.00 Electronics Engineers, Except Computer
 17-2112.00 Industrial Engineers
 17-2141.00 Mechanical Engineers

Life, Physical and Social Science Occupations:

19-3031.00 Clinical, Counseling, & School Psychologists
 19-1042.00 Medical Scientists, Except Epidemiologists

Community and Social Services Occupations:

21-1021.00 Child, Family, and School Social Workers
 19-3031.02 Clinical Psychologists
 19-3031.03 Counseling Psychologists
 19-3031.01 Educational Psychologists
 21-1012.00 Educational, Vocational, and School Counselors
 21-1014.00 Mental Health Counselors
 21-1023.00 Mental Health & Substance Abuse Social Workers
 21-1015.00 Rehabilitation Counselors
 21-1093.00 Social and Human Service Assistants

Legal Occupations:

23-1011.00 Lawyers
 23-2011.00 Paralegals and Legal Assistants

Education, Training & Library Occupations:

25-2021.00 Elementary School Teachers, Except Special Education
 25-1191.00 Graduate Teaching Assistants
 25-2012.00 Kindergarten Teachers, Except Special Education
 25-4021.00 Librarians
 25-2022.00 Middle School Teachers, Except Special and Voc. Education
 25-2011.00 Preschool Teachers, Except Special Education
 25-2031.00 Secondary School Teachers, Except Special and Voc. Education
 25-2041.00 Special Education Teachers, Preschool, Kindergarten and Elementary
 25-9041.00 Teacher Assistants

Arts, Design, Entertainment, Sports & Media Occupations:

27-2022.00 Coaches and Scouts
 27-1024.00 Graphic Designers
 27-3031.00 Public Relations Specialists

Healthcare Practitioners & Technical Occupations:

29-2021.00 Dental Hygienists
 29-2041.00 Emergency Medical Technicians and Paramedics
 29-1063.00 Internists, General
 29-2061.00 Licensed Practical and Licensed Vocational Nurses
 29-2011.00 Medical & Clinical Laboratory Technologists
 29-2071.00 Medical Records and Health Information Technicians
 29-1122.00 Occupational Therapists
 29-1051.00 Pharmacists
 29-2052.00 Pharmacy Technicians
 29-1123.00 Physical Therapists
 29-2034.02 Radiologic Technicians
 29-2034.01 Radiologic Technologists
 29-1111.00 Registered Nurses
 29-1127.00 Speech-Language Pathologists

Healthcare Support Occupations:

31-9091.00 Dental Assistants
 31-1011.00 Home Health Aides
 31-9092.00 Medical Assistants
 31-1012.00 Nursing Aides, Orderlies, and Attendants

Protective Service Occupations:

33-3012.00 Correctional Officers and Jailers
 33-1012.00 First-Line Supervisors of Police and Detectives*
 33-2011.02 Forest Fire Fighters
 33-1021.02 Forest Fire Fighting and Prevention Supervisors
 33-3051.02 Highway Patrol Pilots
 33-2011.01 Municipal Fire Fighters
 33-1021.01 Municipal Fire Fighting and Prevention Supervisors
 33-3051.01 Police Patrol Officers
 33-9032.00 Security Guards
 33-3051.03 Sheriffs and Deputy Sheriffs

Food Preparation & Serving Related Occupations:

35-3011.00 Bartenders
 35-3021.00 Combined Food Preparation and Serving Workers, Incl. Fast Food
 35-2011.00 Cooks, Fast Food
 35-2012.00 Cooks, Institution and Cafeteria
 35-2014.00 Cooks, Restaurant
 35-2015.00 Cooks, Short Order
 35-3022.00 Counter Attendants, Cafeteria, Food Concession and Coffee Shop
 35-9011.00 Dining Room/Cafeteria Attendants and Bartender Helpers
 35-9021.00 Dishwashers
 35-1012.00 First-Line Supervisors of Food Prep and Serving Workers*
 35-2021.00 Food Preparation Workers

* First Line Supervisors/Managers

O*NET Desk Guide

O*Net Code	O*Net Title	O*Net Code	O*Net Title
35-3041.00	Food Servers, Nonrestaurant	43-9051.02	Mail Clerks, Except Mail Machine Operators and Postal Service
35-9031.00	Hosts/Hostesses, Restaurant, Lounge, and Coffee Shop	43-9051.01	Mail Machine Operators, Preparation and Handling
35-3031.00	Waiters and Waitresses	43-5081.02	Marking Clerks
Building & Grounds Cleaning & Maintenance Occupations:		43-6013.00	Medical Secretaries
37-1011.01	Housekeeping Supervisors	43-4031.02	Municipal Clerks
37-1011.02	Janitorial Supervisors	43-9061.00	Office Clerks, General
37-2011.00	Janitors & Cleaners, Except Maids/Housekeeping Cleaners	43-4151.00	Order Clerks
37-3011.00	Landscaping and Groundskeeping Workers	43-5081.04	Order Fillers, Wholesale and Retail Sales
37-2012.00	Maids and Housekeeping Cleaners	43-3051.00	Payroll and Timekeeping Clerks
Personal Care & Service Occupations:		43-5052.00	Postal Service Mail Carriers
39-9011.00	Child Care Workers	43-5053.00	Postal Service Mail Sorters, Processors, and Processing Machine Operators
39-1021.00	First-Line Supervisors/Managers of Personal Service Workers	43-5061.00	Production, Planning, and Expediting Clerks
39-9031.00	Fitness Trainers and Aerobics Instructors	43-4171.00	Receptionists and Information Clerks
39-5012.00	Hairdressers, Hairstylists, and Cosmetologists	43-6014.00	Secretaries, Except Legal, Medical, & Executive
39-9021.00	Personal and Home Care Aides	43-5071.00	Shipping, Receiving, and Traffic Clerks
39-9032.00	Recreation Workers	43-3021.01	Statement Clerks
Sales & Related Occupations:		43-5081.01	Stock Clerks, Sales Floor
41-2011.00	Cashiers	43-5081.03	Stock Clerks - Stockroom, Warehouse, or Storage Yard
41-2021.00	Counter and Rental Clerks	43-2011.00	Switchboard Operators, including Answering Service
41-1011.00	First-Line Supervisors/Managers of Retail Sales Workers	43-3071.00	Tellers
41-1012.00	First-Line Supervisors/Managers of Non-Retail Sales Workers	43-4061.02	Welfare Eligibility Workers and Interviewers
41-3021.00	Insurance Sales Agents	43-9022.00	Word Processors and Typists
41-2022.00	Parts Salespersons	Construction & Extration Occupations:	
41-2031.00	Retail Salespersons	47-2031.05	Boat Builders and Shipwrights
41-3031.01	Sales Agents, Securities and Commodities	47-2031.06	Brattice Builders
41-3031.02	Sales Agents, Financial Services	47-2031.03	Carpenter Assemblers and Repairers
41-4011.01	Sales Representatives, Agricultural	47-2031.01	Construction Carpenters
41-4011.02	Sales Representatives, Chemical and Pharmaceutical	47-2061.00	Construction Laborers
41-4011.03	Sales Representatives, Electrical/Electronic	47-2111.00	Electricians
41-4011.06	Sales Representatives, Instruments	47-1011.01	First-Line Supervisors* Supervisors-Construction Trades Workers
41-4011.04	Sales Representatives, Mechanical Equipment and Supplies	47-1011.02	First-Line Supervisors and Manager/Supervisors- Extractive Workers
41-4011.05	Sales Representatives, Medical	47-2073.01	Grader, Bulldozer and Scraper Operators
41-4012.00	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	47-2073.02	Operating Engineers
41-9041.00	Telemarketers	47-2141.00	Painters, Construction & Maintenance
41-3041.00	Travel Agents	47-2152.01	Pipe Fitters
Office & Administrative Support Occupations:		47-2152.03	Pipelaying Fitters
43-4051.01	Adjustment Clerks	47-2152.02	Plumbers
43-3011.00	Bill and Account Collectors	47-2031.02	Rough Carpenters
43-3021.02	Billing, Cost, and Rate Clerks	47-2031.04	Ship Carpenters and Joiners
43-3021.03	Billing, Posting, & Calculating Machine Operators	Installation, Maintenance and Repair Occupations:	
43-3031.00	Bookkeeping, Accounting, and Auditing Clerks	49-2011.01	Automatic Teller Machine Servicers
43-4011.00	Brokerage Clerks	49-3021.00	Automotive Body and Related Repairers
43-4061.01	Claims Takers, Unemployment Benefits	49-3023.01	Automotive Master Mechanics
43-9011.00	Computer Operators	49-3023.02	Automotive Specialty Technicians
43-4031.01	Court Clerks	49-3031.00	Bus & Truck Mechanics and Diesel Engine Specialists
43-4051.02	Customer Service Representatives, Utilities	49-2022.01	Central Office & PBX Installers and Repairers
43-9021.00	Data Entry Keyers	49-2022.03	Communication Equipment Mechanics, Installers, and Repairers
43-5032.00	Dispatchers, Except Police, Fire, and Ambulance	49-2011.02	Data Processing Equipment Repairers
43-6011.00	Executive Secretaries and Administrative Assistants	49-1011.00	First-Line Supervisors of Mechanics, Installers, and Repairers*
43-4071.00	File Clerks	49-2022.02	Frame Wires, Central Office
43-1011.01	First-Line Supervisors, Customer Service	49-9021.01	Heating and Air Conditioning Mechanics
43-1011.02	First-Line Supervisors/Managers, Administrative Support	49-9098.00	Helpers - Installation, Maintenance, and Repair Workers
43-4161.00	Human Resources Assistants, Except Payroll and Timekeeping	49-9041.00	Industrial Machinery Mechanics
43-9041.01	Insurance Claims Clerks	49-9042.00	Maintenance and Repair Workers, General
43-9041.02	Insurance Policy Processing Clerks	49-2011.03	Office Machine and Cash Register Servicers
43-6012.00	Legal Secretaries	49-2022.05	Station Installers and Repairers, Telephone
43-4121.00	Library Assistants, Clerical	49-2022.04	Telecommunications Facility Examiners
43-4031.03	License Clerks	49-9052.00	Telecommunications Line Installers and Repairers
43-4131.00	Loan Interviewers and Clerks		

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O*Net Code	O*Net Title	O*Net Code	O*Net Title
Production Occupations:			
51-3011.01	Bakers, Bread and Pastry	51-4031.03	Press and Press Brake Machine Setters and Set-Up Operators, Metal and Plastic
51-3011.02	Bakers, Manufacturing	51-5023.09	Printing Press Machine Operators and Tenders
51-9071.04	Bench Workers, Jewelry	51-9198.02	Production Helpers
51-4121.05	Brazers	51-9061.05	Production Inspectors, Testers, Graders, Sorters, Samplers, Weighers
51-4033.02	Buffing and Polishing Set-Up Operators	51-9198.01	Production Laborers
51-4072.05	Casting Machine Set-Up Operators	51-4031.02	Punching Machine Setters and Set-Up Operators, Metal and Plastic
51-4081.02	Combination Machine Tool Operators and Tenders, Metal and Plastic	51-4031.01	Sawing Machine Tool Setters and Set-Up Operators, Metal and Plastic
51-4081.01	Combination Machine Tool Setters and Set-Up Operators, Metal and Plastic	51-5023.06	Screen Printing Machine Setters and Set-Up Operators
51-5023.04	Design Printing Machine Setters and Set-Up Operators	51-6031.01	Sewing Machine Operators, Garment
51-9061.04	Electrical and Electronic Inspectors and Testers	51-6031.02	Sewing Machine Operators, Non-Garment
51-5023.07	Embossing Machine Set-Up Operators	51-4031.04	Shear and Slitter Machine Setters and Set-Up Operators, Metal and Plastic
51-5023.08	Engraver Set-Up Operators	51-9071.02	Silversmiths
51-4021.00	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	51-4121.04	Solderers
51-2091.00	Fiberglass Laminators and Fabricators	51-6011.01	Spotters, Dry Cleaning
51-1011.00	First-Line Supervisors* of Production and Operating Workers	51-2092.00	Team Assemblers
51-9071.06	Gem and Diamond Workers	51-6063.00	Textile Knitting and Weaving Machine Setters, Operators and Tenders
51-4033.01	Grinding, Honing, Lapping, and Deburring Machine Set-Up Operators	51-4111.00	Tool and Die Makers
51-9071.01	Jewelers	51-4121.01	Welders, Production
51-6011.03	Laundry/Drycleaning Machine Operators and Tenders, Except Pressing	51-4121.02	Welders and Cutters
51-5023.03	Letterpress Setters and Set-Up Operators	51-4121.03	Welder-Fitters
51-4041.00	Machinists	Transportation & Material Moving Occupations:	
51-5023.05	Marking and Identification Printing Machine Setters and Set-Up Operators	53-3022.00	Bus Drivers, School
51-9061.01	Materials Inspectors	53-7061.00	Cleaners of Vehicles and Equipment
51-9061.02	Mechanical Inspectors	53-3031.00	Driver/Sales Workers
51-4072.04	Metal Molding, Coremaking & Casting Machine Operators and Tenders	53-1021.00	First-Line Supervisors of Helpers, Laborers, & Material Movers, Hand
51-4072.03	Metal Molding, Coremaking, Casting Machine Setters and Set-Up Operators	53-1031.00	First-Line Supervisors/Managers of Transportation and Material Moving Machine and Vehicle Operators
51-9071.03	Model and Mold Makers, Jewelry	53-7062.03	Freight, Stock and Material Movers, Hand
51-5023.02	Offset Lithographic Press Setters and Set-Up Operators	53-7062.02	Grips and Set-Up Workers, Motion Picture Sets, Studios, and Stages
51-9111.00	Packaging & Filling Machine Operators and Tenders	53-7051.00	Industrial Truck and Tractor Operators
51-9071.05	Pewter Casters and Finishers	53-7064.00	Packers and Packagers, Hand
51-4072.02	Plastic Molding and Casting Machine Operators and Tenders	53-6031.00	Service Station Attendants
51-4072.01	Plastic Molding and Casting Machine Setters and Set-Up Operators	53-7062.01	Stevedores, Except Equipment Operators
51-9061.03	Precision Devices Inspectors and Testers	53-3041.00	Taxi Drivers and Chauffeurs
51-6011.02	Precision Dyers	53-3032.02	Tractor-Trailer Truck Drivers
51-5023.01	Precision Printing Workers	53-3032.01	Truck Drivers, Heavy
		53-3033.00	Truck Drivers, Light or Delivery Services

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Visit O*NET on line at www.onetcenter.org or use the code connector at www.onetcodeconnector.org

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